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GEOPHYSICS IN ENGINEERING 118 ... 89%
Simulated seismic data match actual seismic data very well. Several interpretation methods are being evaluated, including comparing amplitudes between surveys and inverting seismic data to estimate porosity. Please read the full-length paper for additional detail, illustrations, and references.
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The method is datadriven and uses a neural network. The objective is to define a relationship between the seismic velocity and reservoir state, neglecting temperature. The seismic velocity is obtained by inverting the seismic data by use of the acoustic impedance.
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Incorporating 4D Seismic Data in Reservoir Simulation Models Using Ensemble Kalman Filter 2006, Gu and Oliver 2004, Gao and Reynolds 2006, Wen and Chen 2005). Conditioning reservoir simulation models to seismic data is a difficult task (Gosselin et al. 2003).
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Results of the Brugge Benchmark Study for Flooding Optimization and History Matching 79%
The optimized production strategy was tested on a synthetic truth model developed by TNO, which was also used to generate the production data and inverted time-lapse seismic. The spread of the net present value (NPV) obtained by the different participants is on the order of 10
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However, the optimal use of all consistent data available will yield reservoir models that are less and less uncertain. This second category of data depends on reservoir properties like porosity and permeability in a relatively direct way.
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Integration of Seismic Anisotropy and Reservoir Performance Data for Characterization of Naturally Fractured Reservoirs Using Discrete Feature Network Models 77%

Three-dimensional seismic data provide uncalibrated information throughout the interwell space. Elastic attributes such as azimuthally dependent normal moveout velocity (ANMO), reflection amplitude vs. azimuth (AVAZ), and shear-wave birefringence can be inverted from 3D-seismic data.

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Combining Saturation Changes and 4D Seismic for Updating Reservoir Characterizations 76%

Elastic inversion relies on a simplified seismic model and generally produces 3D cubes for compressional-wave velocity, shear-wave velocity, and density. Understanding the robustness of forward and inverse techniques is important when deciding the amount of information carried by seismic data.

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In the sharp front regime, the displacing fluid occupies nearly all the pores and throats behind the main wetting front and the saturation changes abruptly. As mentioned above, Lenormand and Zarcone [1984] observed the two regimes in a 2-D micromodel and related the regimes to the capillary number

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Fluid Production and Injection Induced Stress Changes Using Reservoir Volume Changes Inverted From Tiltmeter-Based Surface Deformation Measurements 71%

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Prior to this project, 3D seismic data had been acquired over the Cocuite field. This was first demonstrated by Hottman and Johnson1 using sonic velocities and by Pennebaker2 using seismic velocities. 1) Here, Î´ij = 1 if i = j and = 0 otherwise.

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10JOOL: Technical Program 72%

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PETROBOWL VOLUNTEER LIST: Hand out Flyers Door Mo... 71%

A: NMR or Nuclear Magnetic Resonance S: Schlumberger Oilfield Glossary 3§ T O JMP Q: Name the device used both onshore and on the seabed to detect the ground velocity of seismic waves

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